
Leak Detection Sensor – Cleaning & BriteSensor™ Recovery

What to do First:

- Identify and/or chemically analyze the liquid detected and repair the source of the leak (*be sure to follow all environmental rules, regulations, procedures and reporting requirements*).
- Pump the fuel / waste water mixture into an approved containment vessel and clean the area with absorbent pads (*follow disposal regulations & safety precautions*).
- Remove and clean the exposed sensor. *In the case of several types of BriteSensors, replace it with a new or recovered sensor (see [Applicable BriteSensors with reactive strips](#) below).*

INCON BriteSensor Cleaning & Recovery:

All BriteSensors can detect two or more alarm conditions. Most BriteSensors can also discriminate between petroleum products and water (*except the TSP-HIS Hydrostatic Interstitial Sensor*). When a liquid or condensed hydrocarbon vapor comes in contact with the sensor, the dark orange strip inside of the sensor swells / expands, which causes it to enter into a PRODUCT alarm state. **Do not** discard BriteSensors that are in a *product alarm state* — they can be reused after cleaning and adequate recovery.

Applicable BriteSensors with reactive strips:

TSP-DDS (Discriminating Dispenser Sump Sensor)

TSP-DTS (Discriminating Turbine Sump Sensor)

TSP-MWS (Discriminating Monitoring Well Sensor)

Approximate Recovery Times:

- **90 minutes** for a 24 hour soak in gasoline
- **30 days** for a 24 hour soak in diesel fuel

NOTES: *Recovery is delayed by high humidity or low temperatures. Recoveries are also delayed from prolonged or repeated hydrocarbon exposures, or from exposures to diesel fuel*

*Install a new / spare recovered sensor to maintain EPA compliance during recovery (**Important** when the sensor has had extended exposures or exposures with diesel fuel)*

A BriteSensor IS NOT and WILL NOT be in a PRODUCT alarm state after it has recovered (this can be verified by connecting / wiring it to a Tank Sentinel console)

How to Recover a BriteSensor in a PRODUCT alarm state:

1. Clean it – rinse / soak in clean lukewarm water
2. Wipe off with clean dry rag
3. Dry it in a warm, low-humidity environment (70 to 85 degrees F) until the alarm clears **Continued...**

Cleaning INCON Sensors (those needing no recovery period):

The TSP-DIS sensor only requires cleaning after product is detected (PRODUCT alarm generated). The TSP-EIS sensor only requires cleaning after a liquid is detected (standard or liquid alarm is generated)... this is especially true when a product-like odor is noticeable.

Applicable Sensors (those without hydrocarbon-reactive strips):

TSP-DIS (Discriminating Interstitial BriteSensor)

TSP-EIS (ElectroOptic Interstitial Standard sensor)

How to Clean Sensors (those needing no recovery period):

Follow the advice given in the first section of this bulletin, then

1. Unscrew and remove the tip of the sensor for cleaning
2. Rinse the sensor and its tip with clean lukewarm water
3. Wipe-off the two conductive metal elements & the diamond shaped lens with a clean dry rag
4. Reinstall the sensor tip, and reinstall the sensor in its original location after the leak was fixed.

